

Table S1

| | WT | | | Δ Rep | | | Δ N Δ Rep | | |
|----------------|--------|--------|--------|--------------|--------|--------|-------------------------|-----|-----|
| | D13-14 | D18-19 | D21-22 | D13-14 | D18-19 | D21-22 | D14 | D18 | D21 |
| Exp 1* | 125 | 498 | 869 | 248 | 230 | 12.5 | 0 | 0 | 0 |
| Exp 2* | 324 | 896 | 1400 | 195 | 187 | 314 | 0 | 0 | 0 |
| Exp 3* | 861 | 2200 | 316 | 344 | 175 | 88 | 0 | 0 | 0 |
| Exp 4** | 204 | 988 | 732 | 263 | 329 | 295 | | | |

Sporozoites per oocyst. At each of the indicated time points post infective bloodmeal, and for each of the indicated parasite lines, the number of sporozoites/oocyst is shown. This number was generated by dividing the average number of midgut sporozoites per mosquito by the average number of oocysts per mosquito. For Expts 1-3, 20 mosquitoes per point were used and for Expt 4, 10 mosquitoes per point were used.

| | WT | | | Δ Rep | | | Δ N Δ Rep | | |
|--------------|--------|--------|--------|--------------|--------|--------|-------------------------|-----|-----|
| | D13-14 | D18-19 | D21-22 | D14-13 | D18-19 | D21-22 | D14 | D18 | D21 |
| Exp 1 | 23000 | 72320 | 85228 | 22100 | 13120 | 11500 | 0 | 0 | 0 |
| Exp 2 | 13950 | 52000 | 11000 | 10952 | 7680 | 25200 | 0 | 0 | 0 |
| Exp 3 | 26700 | 44000 | 13291 | 16000 | 10880 | 6300 | 0 | 0 | 0 |
| Exp 4 | 32400 | 118000 | 102437 | 18450 | 34000 | 20000 | | | |

Sporozoites per midgut. At each of the indicated time points post-infective bloodmeal, and for each of the parasite lines, the average number of midgut sporozoites per mosquito was calculated. For Expts 1-3, 20 mosquitoes per point were used and for Expt 4, 10 mosquitoes per point were used.